

# BOIPE

RAW SEQUENCE LISTING DATE: 06/01\(\frac{1}{2}\)2001
PATENT APPLICATION: US/09/512,260 TIME: 17:40:22

Input Set : A:\PTO.txt

Output Set: C:\CRF3\06012001\I512260.raw

ENTERED

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4 <110> APPLICANT: Adams, Lynn
         Davis, Pamela
         Ma, Jian Jie
 8 <120> TITLE OF INVENTION: Enhancers of CFTR Chloride Channel
         Function
11 <130> FILE REFERENCE: 03037.86704
13 <140> CURRENT APPLICATION NUMBER: 09/512,260
14 <141> CURRENT FILING DATE: 2000-02-24
16 <150> PRIOR APPLICATION NUMBER: 60/121,495
17 <151> PRIOR FILING DATE: 1999-02-24
19 <160> NUMBER OF SEQ ID NOS: 5
21 <170> SOFTWARE: FastSEQ for Windows Version 3.0
23 <210> SEQ ID NO: 1
24 <211> LENGTH: 18
25 <212> TYPE: PRT
26 <213> ORGANISM: Homo sapiens
28 <400> SEQUENCE: 1
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35 <211> LENGTH: 22
36 <212> TYPE: PRT
37 <213> ORGANISM: Homo sapiens
39 <400> SEQUENCE: 2
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46 <211> LENGTH: 559
47 <212> TYPE: PRT
48 <213> ORGANISM: HSV-1
50 <400> SEQUENCE: 3
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    Ser Asp Asp His Val Tyr Glu Glu Leu Arg Ala Ala Thr Ser Gly Pro
55
    Glu Pro Ser Gly Arg Ala Ser Val Arg Ala Cys Ala Ser Ala Ala
57
58
59
   Ala Val Gln Pro Ala Ala Arg Gly Arg Asp Arg Ala Ala Ala Gly
61
    Thr Thr Val Ala Ala Pro Ala Ala Pro Ala Arg Arg Ser Ser Ser
62
                                        90
   Arg Ala Ser Ser Arg Pro Pro Arg Ala Ala Ala Asp Pro Pro Val Leu
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	64				100					105					110		
	65	Arg	Pro	Ala	Thr	Arg	Gly	Ser	Ser	Gly	Gly	Ala	Gly	Ala	Val	Ala	Val
	66			115					120					125			
	67	Gly		Pro	Arg	Pro	Arg		Pro	Pro	Gly	Ala		Ala	Val	Ala	Ser
	68		130	_	_			135			_	_	140	_	_		_
	69		Arg	Pro	Leu	Ala		Ser	Ala	Ala	Pro	_	Thr	Pro	Lys	Ala	
	70	145	<b>C</b>	<b>C1</b>	D	m)	150	7.7 -	m	T	70	155	т).	Dl	<b>2</b>	G1 .	160
	71 72	rrp	Cys	СТА	Pro	165	HIS	Ата	Tyr	ASI	170	Thr	тте	Pne	Cys	175	Ата
	72 73	Wal	7112	T 011	17-1		711	Clu	Tyr	ת ז ת		Cln	ת 1 ת	7.1 -	ת 1 ת		Val
	74	val	пта	ьец	180	Ата	ніа	GIU	тут	185	Arg	GIII	мта	Ата	190	Set	vaı
	75	Trn	Asp	Ser		Pro	Pro	Lvs	Ser		Glu	Ara	Len	Asp		Met	Len
	76	1-1	тор	195	1150	110	110	шуо	200	11011	Oru	****9	ДСИ	205	1119	1100	БСС
	77	Lvs	Ser		Ala	Ile	Ara	Ile	Leu	Val	Cvs	Glu	Glv		Glv	Leu	Leu
	78	-1-	210				5	215			- 1 -		220		1		
	79	Ala	Ala	Ala	Asn	Asp	Ile	Leu	Ala	Ala	Arg	Ala	Gln	Arg	Pro	Ala	Ala
	80	225				-	230					235					240
	81	Arg	Gly	Ser	Thr	Ser	Gly	Gly	Glu	Ser	Arg	Leu	Arg	Gly	Glu	Arg	Ala
	82					245					250					255	
	83	Arg	Pro	Met		Ser	Arg	Arg	Ser		Lys	Ser	Gly	Pro	Arg	Glu	Val
	84	_	_	_	260			_	_	265	_		_	_	270		
	85	Pro	Arg	_	Glu	Tyr	Glu	Asp	Leu	Tyr	Tyr	Thr	Pro		Ser	GLy	Met
	86	70.7 -	0	275	7	Q	D	D	280	m \	C	70	7)	285	70.71	T	C1
	87	Ата	Ser 290	Pro	Asp	ser	Pro	295	Asp	Inr	ser	Arg	300	GTÀ	Ата	ьeu	GIII
	88 89	ሞb~		Sor	λνα	Cln	Λνα		Glu	V a l	7) 200	Dho		Gln	Тиг	Aen	Glu
	90	305	ALG	261	Ary	GIII	310	Gry	Giu	vaı	Arg	315.		GIII	тут	изр	320
	91		Asp	Tur	Ala	Len		Glv	Gly	Ser	Ser			Asp	Asp	Glu	
	92		пор	- 1 -		325	- 1 -	027		501	330	002		1101	1.01	335	
	93	Pro	Glu	Val	Pro	Arg	Thr	Arg	Arg	Pro	Val	Ser	Gly	Ala	Val	Leu	Ser
	94				340	_				345			-		350		
	95	Gly	Pro	Gly	Pro	Ala	Arg	Ala	Pro	Pro	Pro	Pro	Ala	Gly	Ser	Gly	Gly
	96			355					360					365			
	97	Ala	Gly	Arg	Thr	Pro	Thr		Ala	Pro	Arg	Ala		Arg	Thr	Gln	Arg
	98		370					375					380				
	99			Thr	Lys	Ala			Ala	Pro	Ala			Thr	Thr	Arg	
	100	385		~			390			<b>70.7</b>	7.7	395		70	7.7	7	400
	101	Arg	і га	s Ser	: Ala			) GIL	ı Ser	· Ala			Pro	) Asp	O AL		Ala
	102	502	. ጥኤ.	- 7\]-	. Dwa	405			. T	mb.	410		C1-	. c1.	. To	415	a Arg
	103	sei	. 1111	. Alc	420		Arc	j ser	. rys	425		) Alc	GII	1 GT	у <u>Бе</u> ( 43(		AIG
	105	T.v.	2 T.O1	ı Hic			- ጥኪነ	~ \\D]=	Pro			Dro	Δer	Δ1:			o Thr
	106	y	, net	435		, 561		,,,,	440		, 1101		,5	445		- ++1	- + + + + +
	107	Pro	Arc			Glv	. Phe	e Asr			y Val	. Phe	Cvs			a Val	l Gly
	108		450			1		455		;	,		460				1
	109	Arc			a Ala	Met	His			Met	. Ala	a Ala			ı Leı	ı Trp	o Asp
	110	465					470		3			475				-	480
	111	Met	: Sei	Arc	g Pro	Arc	g Thi	Asp	Glu	. Asp	Lev	ı Asr	ı Glı	ı Leı	ı Leı	ı Gly	, Ile
	112					485	5				490	)				495	5



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113 Thr Thr Ile Arg Val Thr Val Cys Glu Gly Lys Asn Leu Leu Gln Arg 114 500 505 115 Ala Asn Glu Leu Val Asn Pro Asp Val Val Gln Asp Val Asp Ala Ala 520 525 116 117 Thr Ala Thr Arg Gly Arg Ser Ala Ala Ser Arg Pro Thr Glu Arg Pro 118 535 119 Arg Ala Pro Ala Arg Ser Ala Ser Arg Pro Arg Pro Val Glu 120 545 550 122 <210> SEQ ID NO: 4 123 <211> LENGTH: 27 124 <212> TYPE: PRT 125 <213> ORGANISM: Artificial Sequence 127 <220> FEATURE: 128 <223> OTHER INFORMATION: membrane permeating peptide 130 <400> SEQUENCE: 4 131 Gly Trp Thr Leu Asn Ser Ala Gly Tyr Leu Leu Gly Lys Ile Asn Leu 133 Lys Ala Leu Ala Ala Leu Ala Lys Lys Ile Leu 134 20 136 <210> SEQ ID NO: 5 137 <211> LENGTH: 16 138 <212> TYPE: PRT 139 <213> ORGANISM: Artificial Sequence 141 <220> FEATURE: 142 <223> OTHER INFORMATION: membrane permeating peptide 144 <400> SEQUENCE: 5 145 Arg Gln Ile Lys Ile Trp Phe Gln Asn Arg Arg Met Lys Trp Lys Lys

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**VERIFICATION SUMMARY**PATENT APPLICATION: US/09/512,260

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